Rec'd PCT/PTO 29 DEC 2004





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000053692	FOR FURTHER A	CTION See Notific	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No.	International filing da	ate (day/month/year)	Priority date (day/month/year)				
PCT/EP2003/006895	30 June 2003	(30.06.2003)	05 July 2002 (05.07.2002)				
International Patent Classification (IPC) or n C08J 9/18, 9/00	national classification ar	nd IPC					
Applicant	BASF AKTIENG	ESELLSCHAFT					
and is transmitted to the applicant at 2. This REPORT consists of a total of This report is also accompan	d sheets 4 sheets ied by ANNEXES, i.e., or this report and/or sheets Administrative Instruct	, including this cover s sheets of the description ts containing rectifica- tions under the PCT).	ational Preliminary Examining Authority heet. on, claims and/or drawings which have been tions made before this Authority (see Rule				
This report contains indications rela	ting to the following ite	ems:					
	and to the tone with the						
I Basis of the report							
II Priority							
III Non-establishment	of opinion with regard t	o novelty, inventive ste	p and industrial applicability				
IV Lack of unity of inv	rention						
V Reasoned statement citations and explan	t under Article 35(2) wi nations supporting such	th regard to novelty, in statement	ventive step or industrial applicability;				
VI Certain documents cited							
VII Certain defects in the international application							
VII Certain observations on the international application							
···							
Date of submission of the demand		Date of completion of this report					
11 November 2003 (11.11.2003)		09	July 2004 (09.07.2004)				
Name and mailing address of the IPEA/EP		Authorized officer					
Facsimile No.		Telephone No.					

Translation



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/006895

I, I	Basis	of the re	port				
1.	With	regard to	the elements of the international application:*				
	\boxtimes	the inte	rnational application as originally filed				
	\boxtimes	the desc	cription:				
		pages	1-7	, as originally filed			
		pages		, filed with the demand			
		pages	, filed with the letter of				
	\square	the clai					
				, as originally filed			
		pages pages	1-11 , as amended (together with any stat				
		pages		, filed with the demand			
		pages	, filed with the letter of				
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	Ш	the drav	-	os originally filed			
		pages		, as originally filed			
		pages					
	_	pages	, filed with the letter of				
		the seque	ence listing part of the description:				
		pages					
		pages					
		pages	, filed with the letter of				
With regard to the language, all the elements marked above were available or furnished to this Authority in the lar the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language							
		the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).				
l		the lan	guage of publication of the international application (under Rule 48.3(b)).				
		the lar or 55.3	nguage of the translation furnished for the purposes of international preliminary examination 3).	(under Rule 55.2 and/			
3.	With preli	n regard minary e	to any nucleotide and/or amino acid sequence disclosed in the international applications was carried out on the basis of the sequence listing:	ation, the international			
		contai	ned in the international application in written form.				
		filed to	ogether with the international application in computer readable form.				
1		furnisl	ned subsequently to this Authority in written form.				
l			hed subsequently to this Authority in computer readable form.				
The statement that the subsequently furnished written sequence listing does not go beyond the disclo international application as filed has been furnished.							
			tatement that the information recorded in computer readable form is identical to the written write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the write the computer readable form is identical to the computer readable for the computer readable form is identical to the computer readable for the computer readable form is identical to the computer readable form is identical to the computer readable for the computer readable form is identical to the computer readable for the computer rea	en sequence listing has			
4.		The ar	mendments have resulted in the cancellation of:	•			
			the description, pages				
			the claims, Nos.				
			the drawings, sheets/fig	i			
5.	. 🗀	This re	eport has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	e been considered to go			
*	in th	acement his repor 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under A rt as "originally filed" and are not annexed to this report since they do not contain a	rticle 14 are referred to nendments (Rule 70.16			
			nent sheet containing such amendments must be referred to under item 1 and annexed to this re	port.			
	iiiy	, <i>эргасы</i>					

INTERNATIONAL PRELIDENARY EXAMINATION REPORT

Internation application No.
PCT/EP 03/06895

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4, 9-11	YES
	Claims	1-3, 5-8	NO .
Inventive step (IS)	Claims		YES
	Claims	4, 9-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

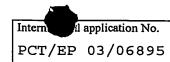
2. Citations and explanations

This report makes reference to the following documents:

D1: DE 199 50 420 D2: EP 0 831 115.

1) D1 discloses a method for producing foam particles that contains all of the stages of the present method, i.e. extruding a mixture of polypropylene and thermoplastic, cooling, granulating, producing an aqueous dispersion of the granules obtained thereby in a stirred tank reactor, impregnation with a propellant at a high temperature, and finally, expansion. Furthermore, the polypropylene minigranules according to D1 consist of polypropylene NOVOLEN 3200 MC, polyamide ULTRAMID B 3, wax and talcum (see D1, page 4, examples), i.e. the same components as in the minigranules according to the present application. According to D1, the quantity of polyamide ULTRAMID B 3 (the cell opener) is 4.75 and 28.5 percent by weight of the propylene polymer particles (see D1, page 4, MG2 and MG3). The bulk density of the foam particles obtained in examples 2 and 3 of D1 is 51 and 86 g/l (see examples 2 and 3 in the table on page 5). Since the particles in D1 are produced with the same starting materials, in the same quantities, and using the same method as in the present application, they must show cell openness as claimed.

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Therefore, the subject matter of the present claims 1-3 and 5-8 lacks novelty (PCT Article 33(2)) (see also D1, page 2, line 65 to page 3, line 60).

Claim 6 contains no temperature restriction during reactor expansion. Therefore, this expansion temperature cannot be taken into account for the examination with respect to novelty.

Claims 4 and 9-10 are dependent on claim 1 and do not meet the PCT requirements for inventive step (PCT Article 33(3)) because the present application does not clearly indicate what problem is solved with respect to D1.

2) The post-expansion and sintering of foam particles is a standard method (see D2, column 3, lines 48-52), and therefore the post-expansion and sintering of already known foam particles does not involve an inventive step. Consequently, the subject matter of the present claim 11 is not inventive (PCT Article 33(3)).